

Figure 1

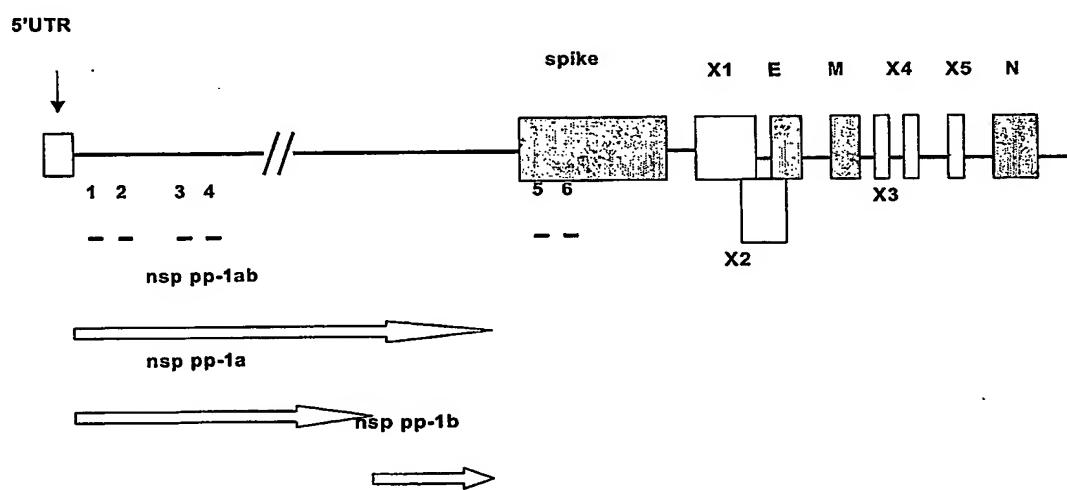
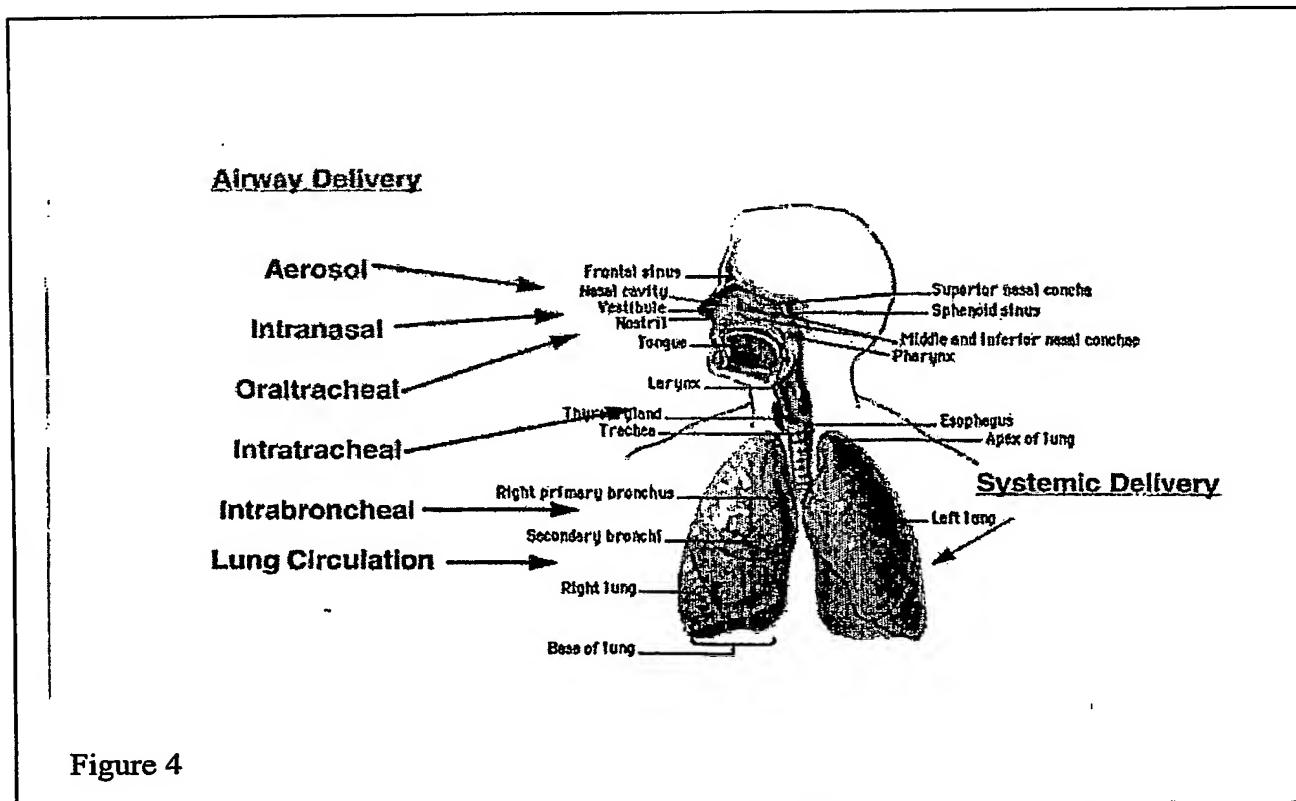
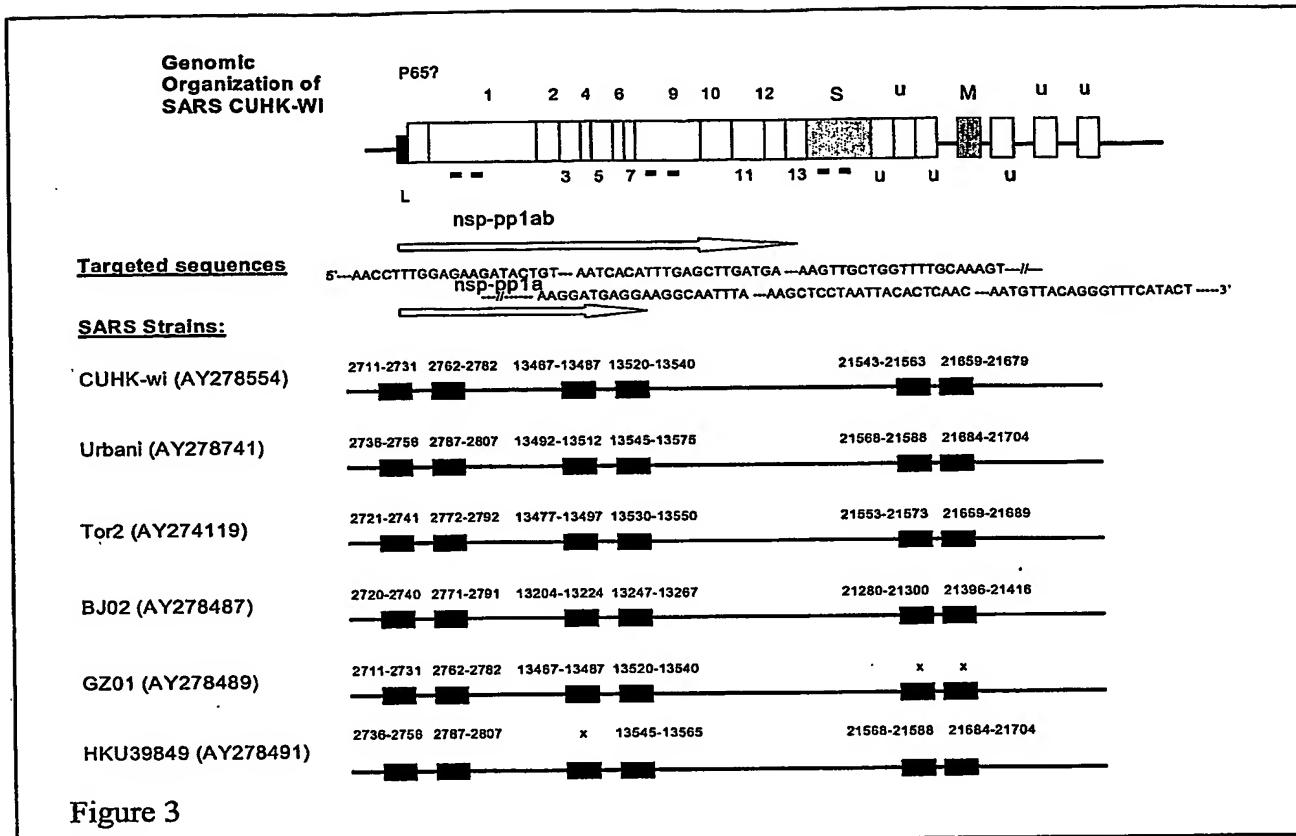


Figure 2



### siRNA-Mediated Gene Knockdown in Mouse Lung by OT Delivery

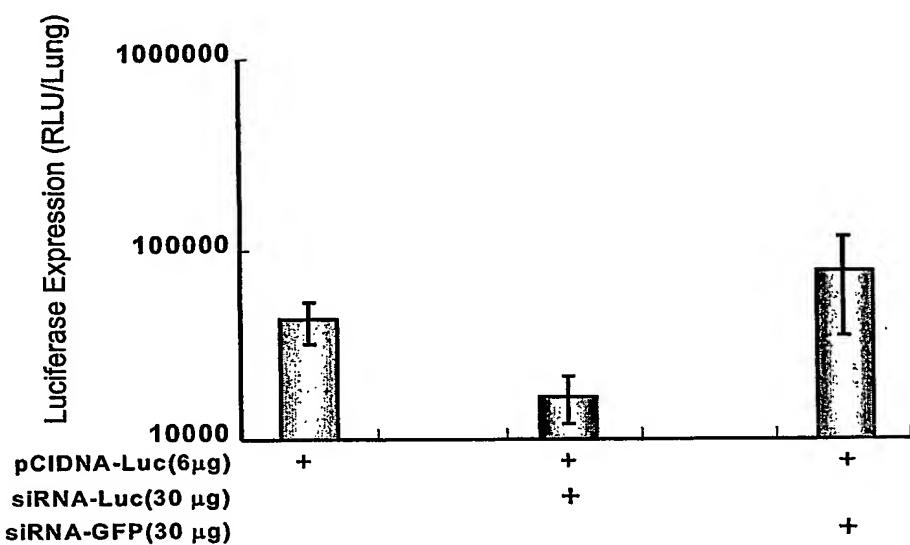
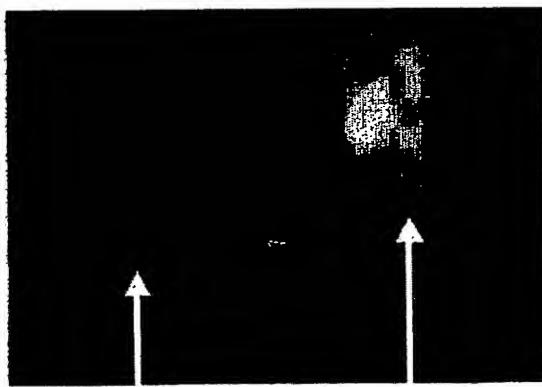
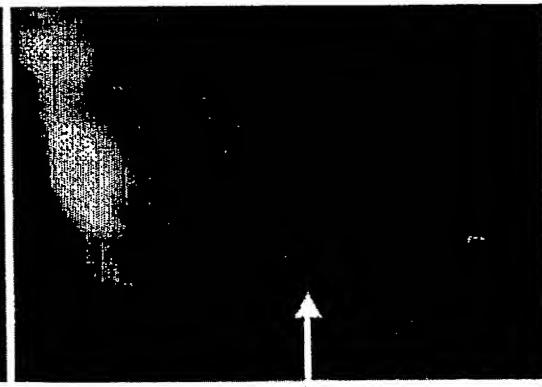


Figure 5

siRNA treated  
without wash

Respiratory trachea Lung

siRNA treated  
after wash

Lung

Figure 6

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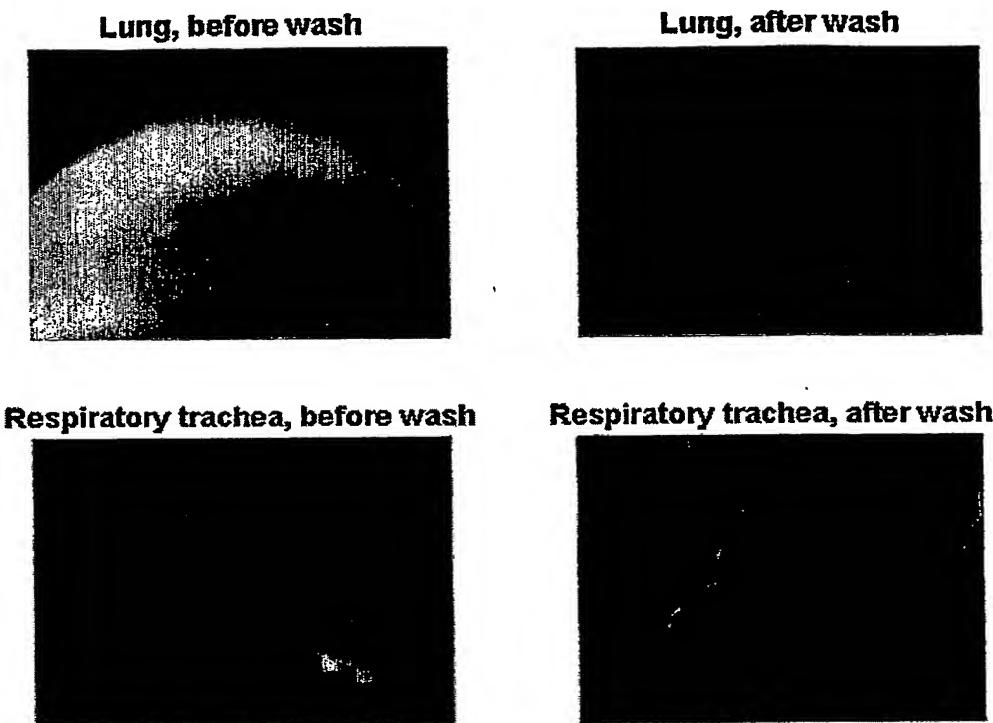


Figure 7

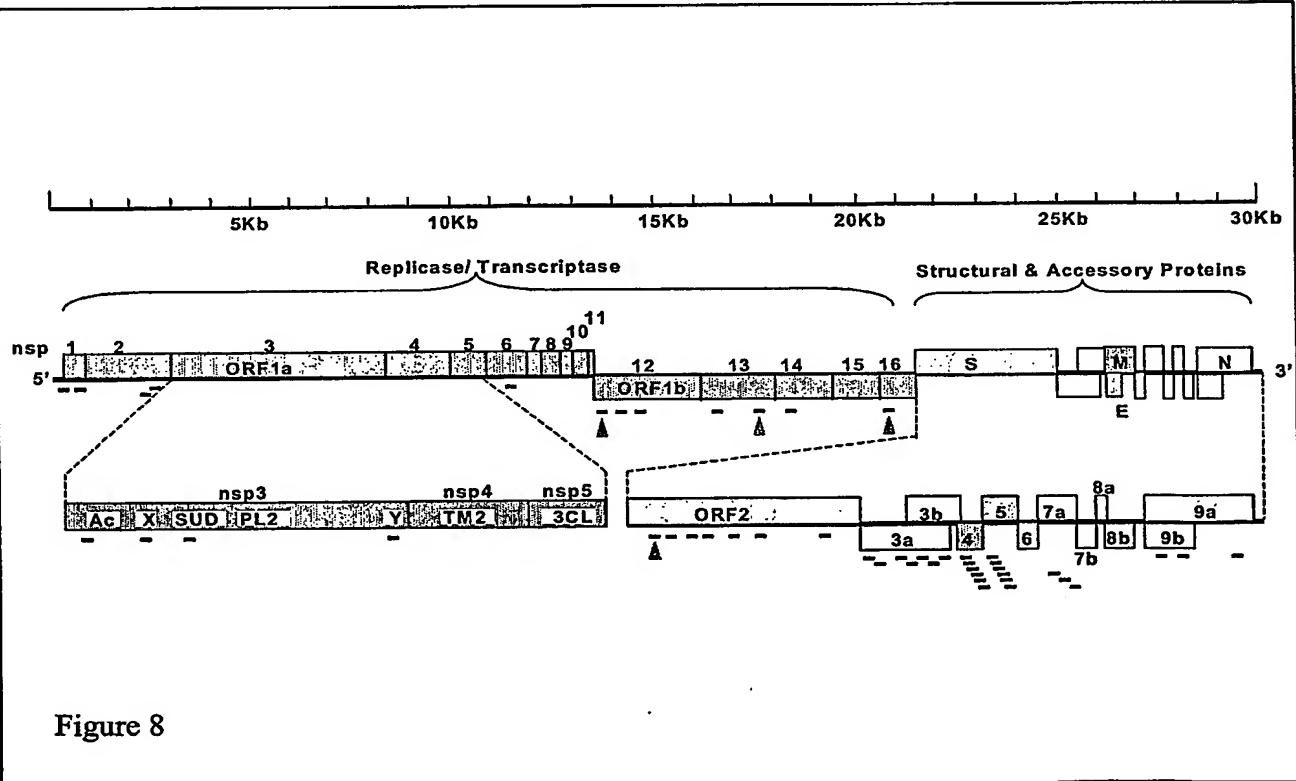


Figure 8

Figure 9

Name	Coding Region	Position (nt)	Sequence (5'-3')
SC01	nsp-12	13603-13623	aagagactattataacttgg
SC02	Spike	21553-21573	aagctcctaattacactcaac
SC03	nsp-3	2772-2792	aatcacattgagcttcatga
SC04	Spike	21669-21689	aatgttacagggttctact
SC05	nsp-12	13530-13550	aaggatgaggaaggcaattta
SC06	nsp-3	2721-2741	aaccttgagaagatactgt
SC07	5' UTR	146-166	aacgagtaactcgcccttctt
SC08	nsp-1	594-614	aattgcataccgcaatgttct
SC09	nsp-3	3236-3256	aacctacacctgaagaaccag
SC10	nsp-3	4172-4192	aaggatgtgctggttatacac
SC11	nsp-3	5758-5778	aaaggaccagtgactgtatgtt
SC12	nsp-3	8096-8116	aagggttggataccgatg
SC13	nsp-6	11074-11094	aagcacgcattctgtgtctt
SC14	nsp-13	17544-17564	aaggataagttagctaatgc
SC15	nsp-16	20843-20863	aactggcacactacttgcga
SC16	nsp-12	14758-14778	aactcctattcgttagttaag
SC17	nsp-13	16756-16776	aagggtgactatggtgatgctg
SC18	nsp-14	18264-18284	aacctacacctccagcttagga
SC19	Spike	22068-22088	aagggttatcaacctatagat
SC20	Spike	22289-22309	aatcacagatgtgttatttgc
SC21	Spike	22951-22971	aaccttacagagttgttagtac
SC22	Spike	23272-23292	aagatgttaactgcactgtatg
SC23	Spike	24871-24891	aagagctggacaaggacttca
SC24	E-protein	26121-26141	aagaaaacaggtacgtaatag
SC25	E-protein	26137-26157	aatagttaatagcgtacttct
SC26	E-protein	26219-26139	tgtgcgtactgctgcatttt
SC27	E-protein	26307-26327	aaggagttccgtatcttctgg
SC28	M-protein	26440-26460	aacctagtaataggttcccta
SC29	M-protein	26628-26648	aatggcttgttattttaggctt
SC30	M-protein	26760-26780	aattgtgaccagaccgctcat
SC31	M-protein	26876-26896	aagagatcactgtggctacat
SC32	M-protein	26968-26988	aaccgctaccgtattggaaac
SC33	M-protein	26789-26809	aaccagcttggagagcaaagtt
SC34	E-protein	26170-26190	aagcacattgacgcataaaaa
SC35	N-protein	28904-28924	aacagtacaacgtcaactcaag
SC36	E-protein	26230-26250	aagactgtatggactcagcct
SC37	ORF3a	25330-25350	aagtactgttcatgtacagc
SC38	ORF3a	25599-25619	aatgcattcaacgcgtatgtt
SC39	ORF3a	25618-25638	aattattatgagatgtggct
SC40	ORF3a	25764-25784	aaggtaacggcatttcaacac
SC41	ORF3a	25805-25825	aaattactacagacactggta
SC42	ORF3a	25929-25949	aaaatgttacattcttcatct
SC43	ORF3a	25984-26004	aatacacacaatcgacggctc
SC44	ORF7	27355-27375	aaccttgcccatcgaggaaacat
SC45	ORF7	27425-27445	aacttgcacttagcacacactt
SC46	ORF7	27541-27561	aagagcttactcgccacttt
SC47	N-protein	28176-28196	aactgacaataaccagaatgg
SC48	N-protein	28355-28375	aaattggctactaccgaagag

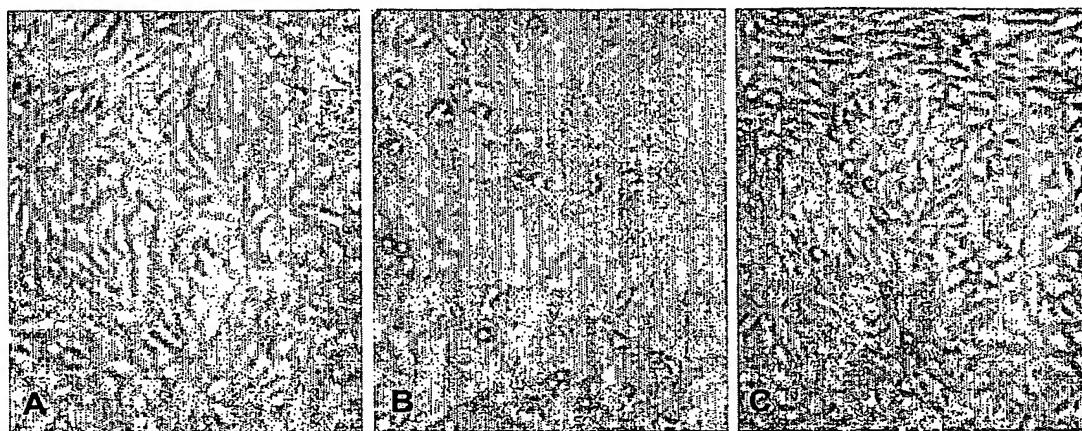


Figure 10

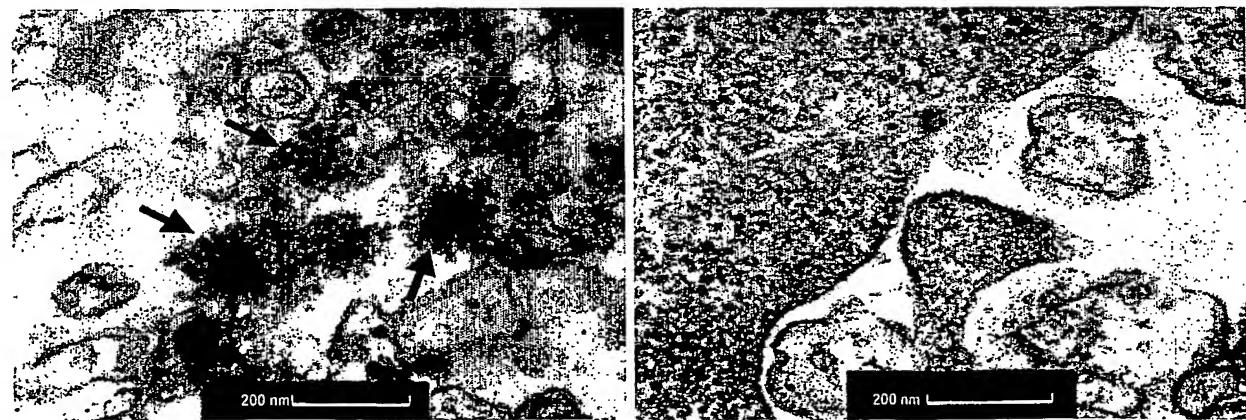


Figure 11

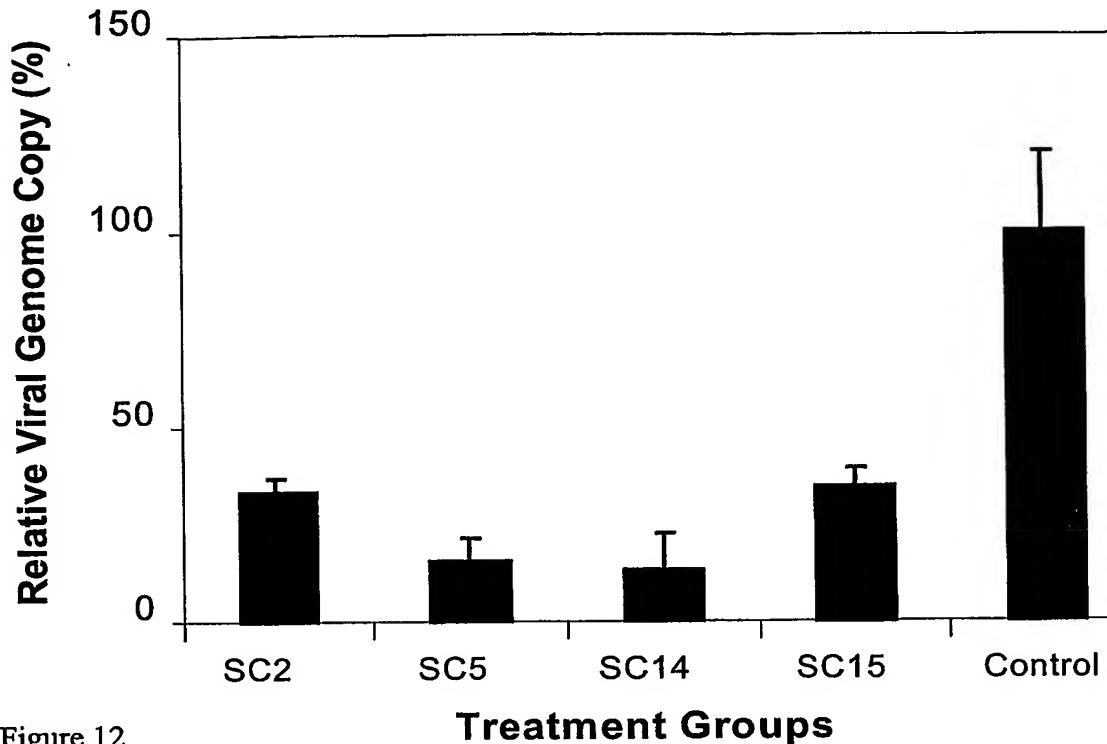
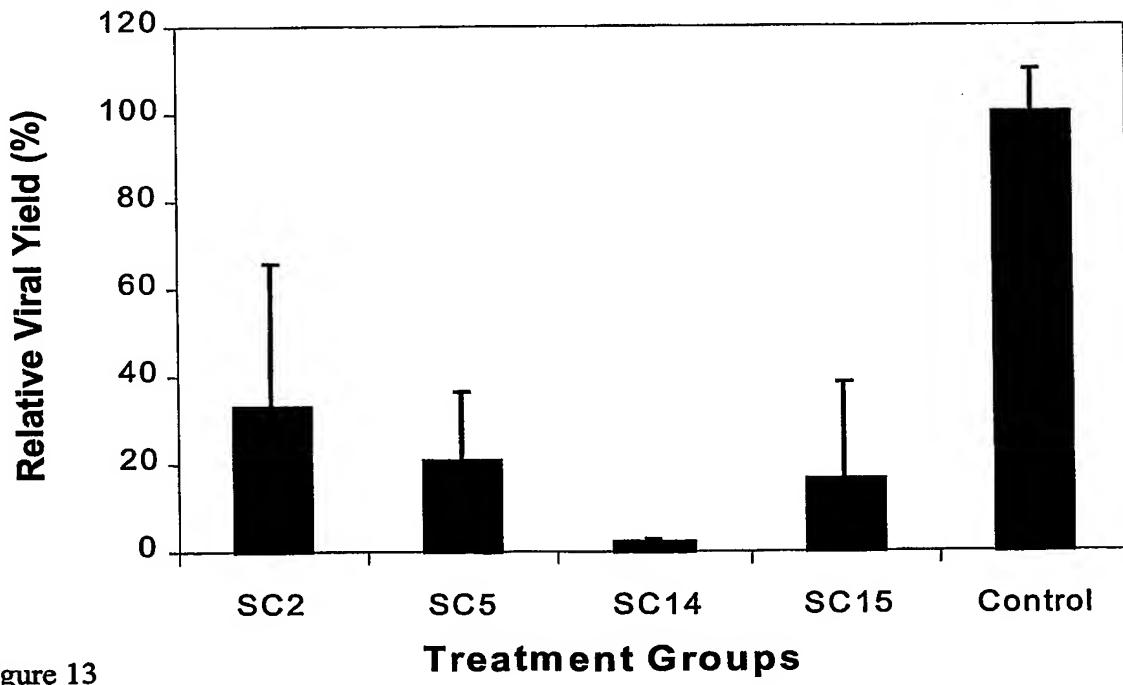


Figure 12



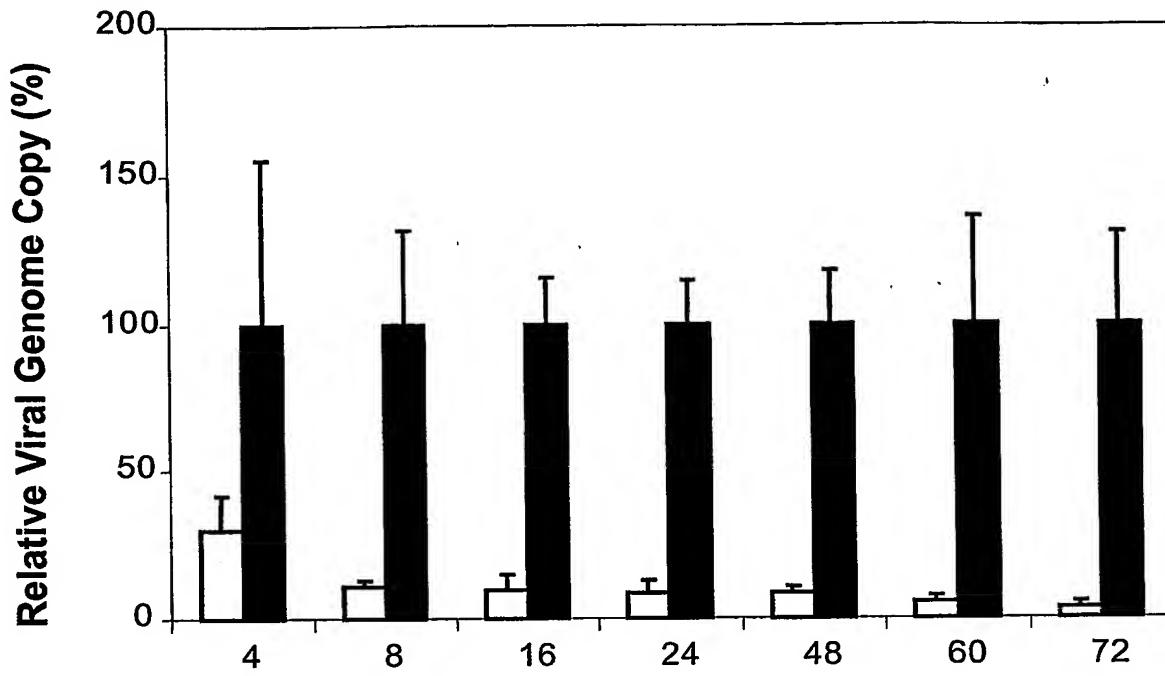


Figure 14 Time Intervals between Transfection/Infection (hr)

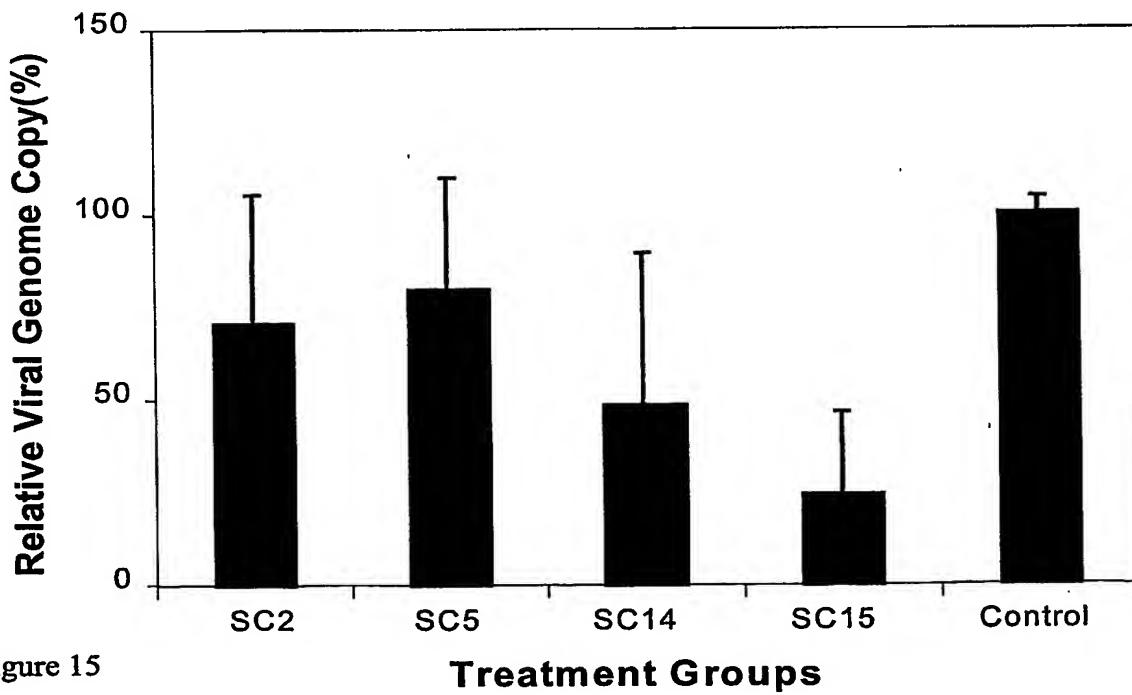
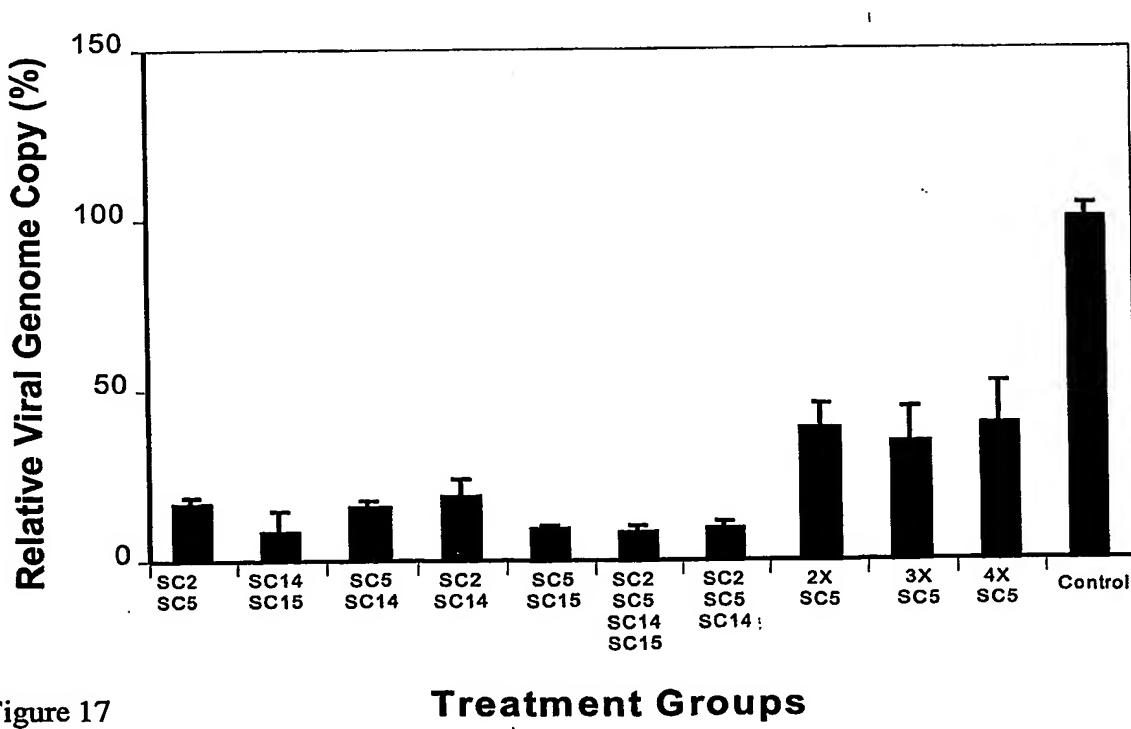
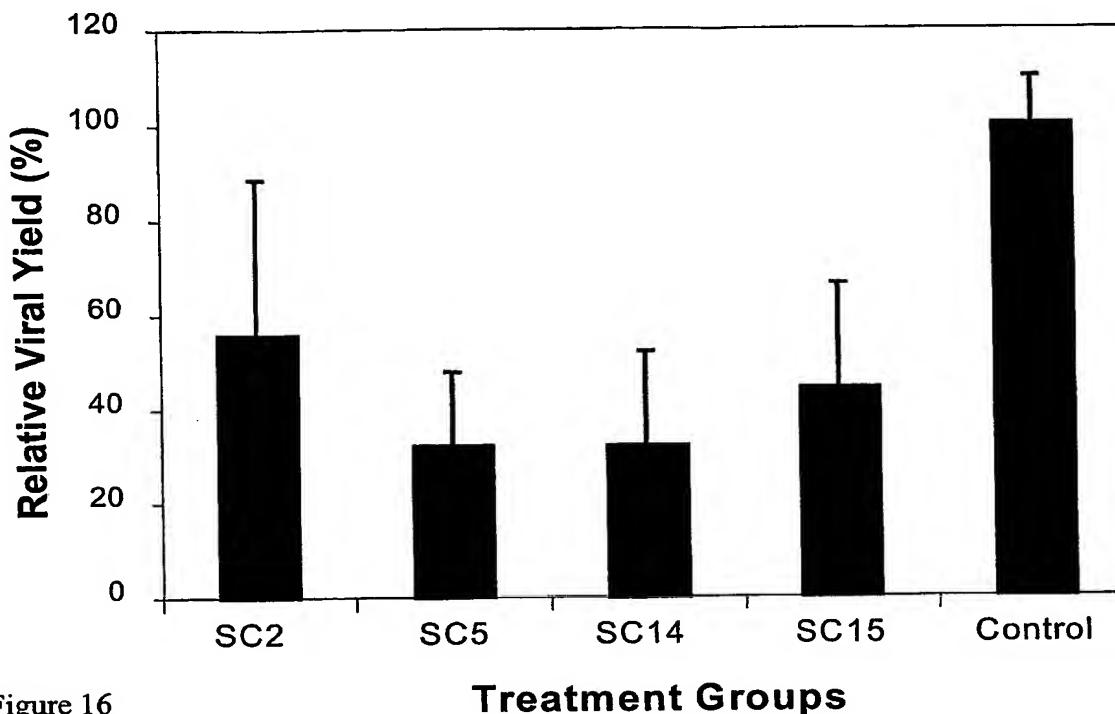


Figure 15



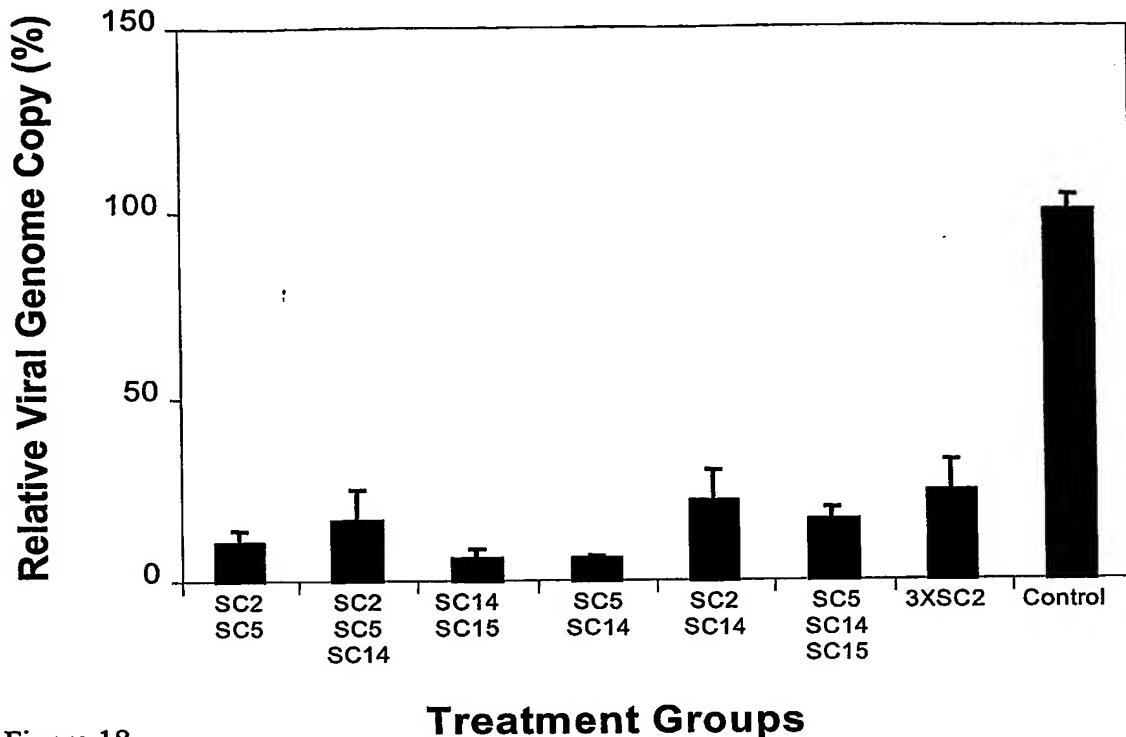


Figure 18

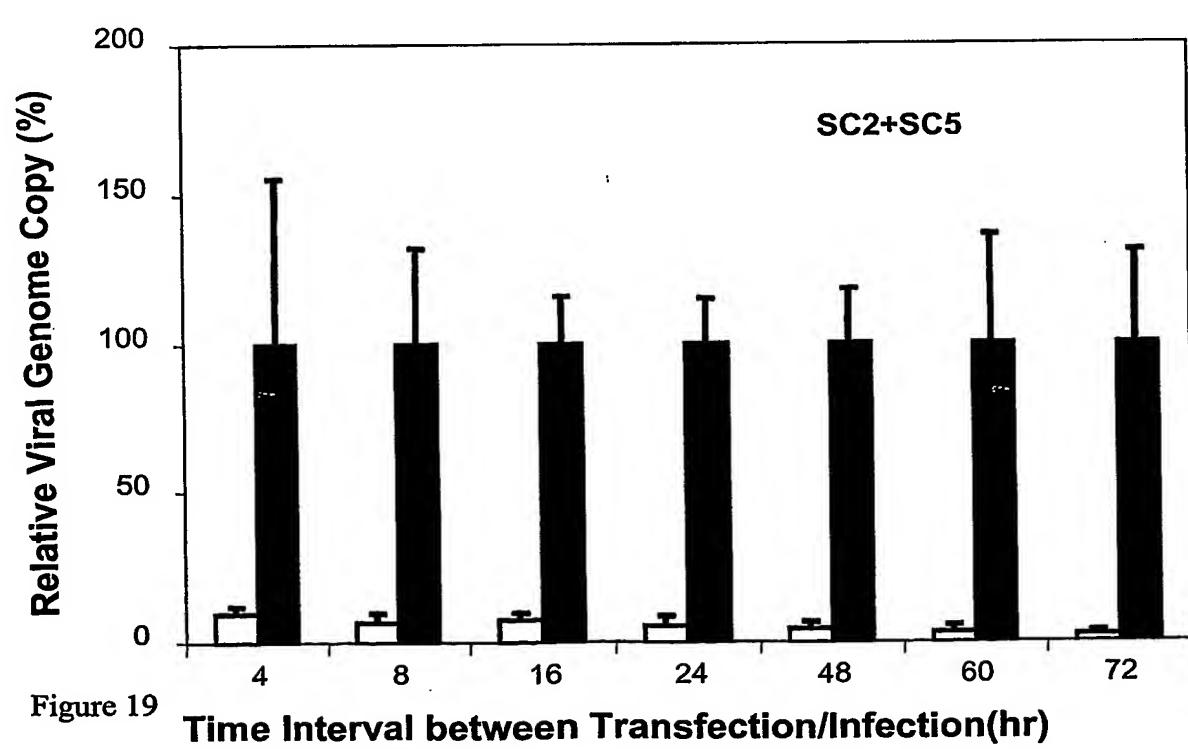


Figure 19

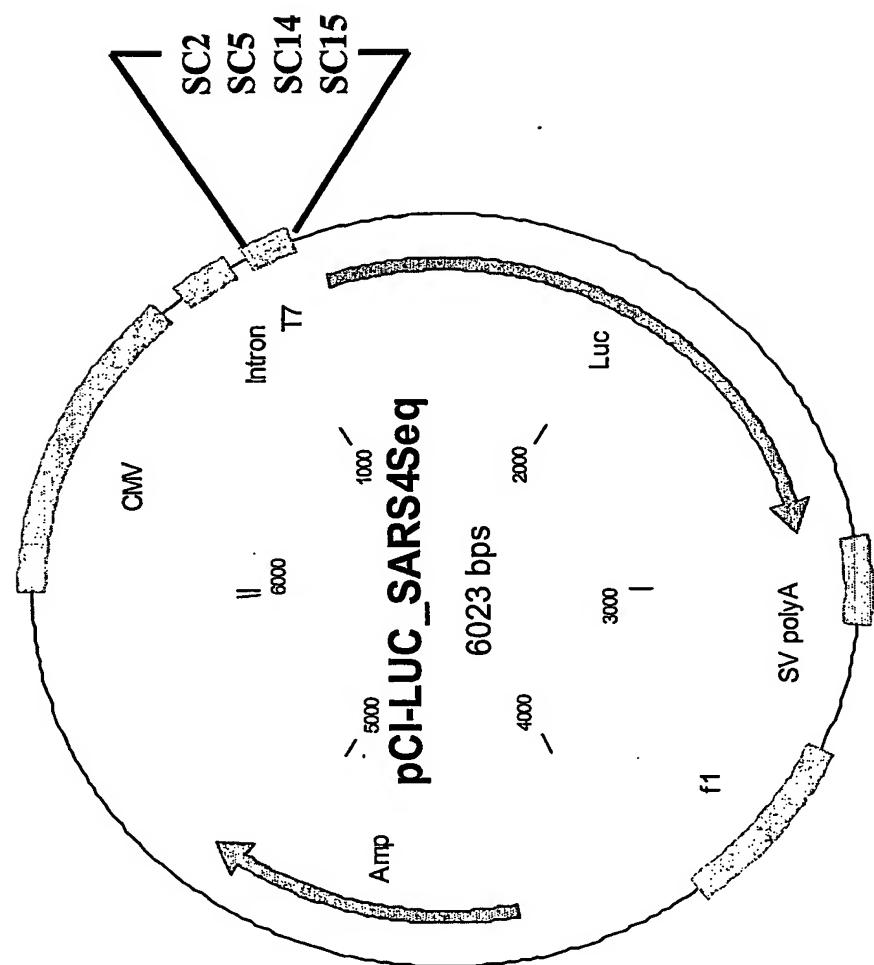


Figure 20

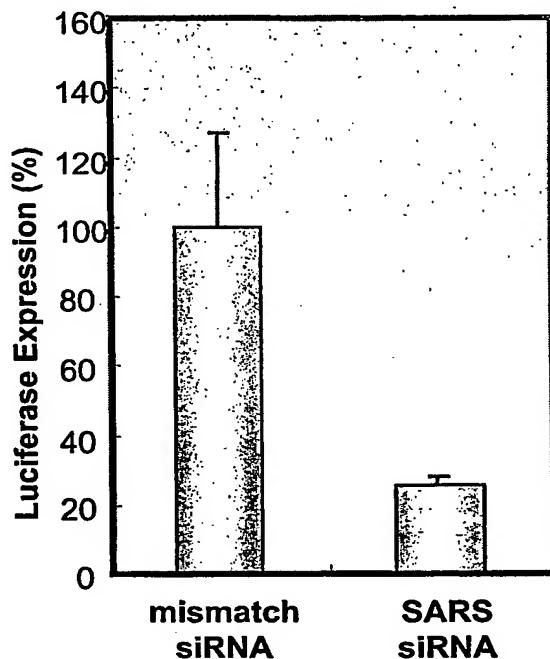
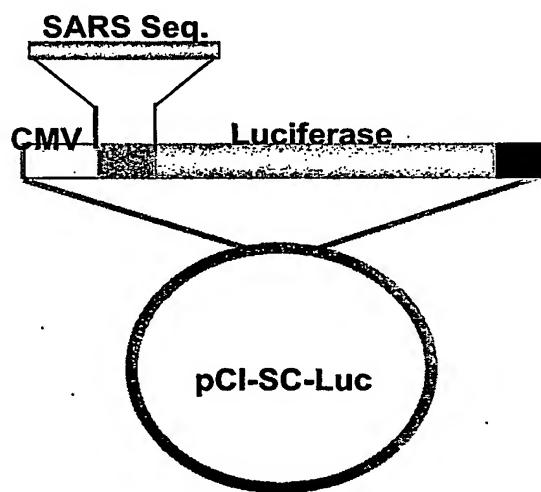
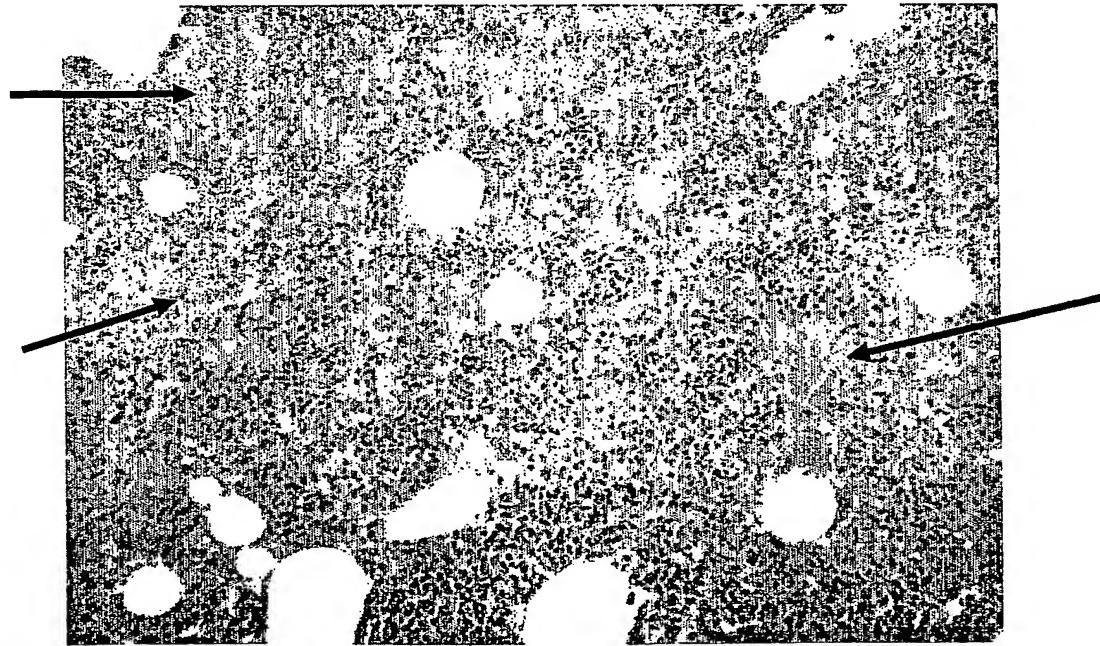
**Intratracheal delivery of siRNA knocking down SARS sequence**

Figure 21

Figure 22

Pathohistology Examination			
Group No.	Monkey No.	Pathological Status	Sum
I	151	+	6+
I	130	++	
I	203	+	
I	138	+	
II	166	+	7+
II	2	++	
II	77	++	
II	21	++	
III	210	+++	9+
III	15	++	
III	214	+++	
III	23	+	
IV	167	+	9+
IV	202	++++	
IV	163	+	
IV	208	++	
V	205	+	9+
V	206	++	
V	121	+++	
V	7	+++	



Monkey Lung Pathological Changes after SARS coronavirus infection.

Figure 23